Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID	:	CP-2018-07-09-08 **Date: 11-07-2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and footpath in Ward No:02 of Yelahanka sub division.
Agency	:	Sri.Girish.M. (Sri Balaji Infrastructures), No:993, old middle school road, Yelahanka, Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-22/W.O/000013/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-07-2018
Sample ID No	:	2018-07-09-08 /03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	09-07-2018
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	46	46	4.6	95.4	90-100	90-100	90-100	95-100
3	2.36 mm	152	198	19.8	80.2	60-95	75-100	85-100	95-100
4	1.18 mm	177	375	37.5	62.5	30-70	55-90	75-100	90-100
5	600 micron	238	613	61.3	38.7	15-34	35-59	60-79	80-100
6	300 micron	235	848	84.8	15.2	5-20	8-30	12-40	15-50
7	150 micron	100	948	94.8	5.2	0-10	0-10	0-10	0-15
8	Pan	52	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2018-07-09-08 **Date: 11-07-2018**

Sample ID No : 2018-07-09-08 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.47	–
2	Specific Gravity	2.52	–
3	Material finer than 75 micron(%)	3.8	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:
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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2018-07-09-08**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and footpath in Ward No:02 of Yelahanka sub division.
Agency	:	Sri.Girish.M. (Sri Balaji Infrastructures), No:993, old middle school road, Yelahanka, Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-22/W.O/000013/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-07-2018
Sample ID No	:	2018-07-09-08 /06
Sample Type /Size	:	Precast Cover Slab
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	10/07/2018

Date: 13-07-2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.48	100.52	1.385	4474	88.4	19.8	18.4	23.0
2	Cover Slab-2	75.51	100.47	1.345	4477	85.7	19.1	17.8	22.3
3	Cover Slab-3	75.49	100.42	1.397	4475	88.9	19.9	18.5	23.1

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TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID	:	**CP-2018-07-09-08** **Date: 14-07-2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and footpath in Ward No:02 of Yelahanka sub division.
Agency	:	Sri.Girish.M. (Sri Balaji Infrastructures), No:993, old middle school road, Yelahanka, Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-22/W.O/000013/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-07-2018
Sample ID No	:	2018-07-09-08 /04
Sample Type /Size	:	CC Kerb Stone/ 450*165*400mm
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	10/07/2018

SL No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.48	165.48	2.815	7928	152.4	19.2	19.2	24.0
2	B	100.58	165.37	2.826	7944	149.8	18.9	18.9	23.6
3	C	100.47	165.42	2.864	7926	150.6	19.0	19.0	23.7

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-07-17-06** **Date: 23/07/2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and footpath in Ward No:02 of Yelahanka sub division.
Agency	:	Sri.Girish.M. (Sri Balaji Infrastructures), No:993, old middle school road, Yelahanka, Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-22/W.O/000013/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-07-2018
Sample ID No	:	2018-07-17-06 /01
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M10 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	23/07/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M10	16/07/2018	23/07/2018	149.62 X 149.32 X 149.39	22341	8.050	193.6	8.7	8.3
2	PCC	M10	16/07/2018	23/07/2018	151.45 X 150.86 X 148.78	22848	8.020	178.9	7.8	
3	PCC	M10	16/07/2018	23/07/2018	150.47 X 149.66 X 150.55	22519	7.668	188.0	8.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-07-17-06** **Date: 13/08/2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and footpath in Ward No:02 of Yelahanka sub division.
Agency	:	Sri.Girish.M. (Sri Balaji Infrastructures), No:993, old middle school road, Yelahanka, Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-22/W.O/000013/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-07-2018
Sample ID No	:	2018-07-17-06 /02
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M10 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	13/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M10	16/07/2018	13/08/2018	150.39 X 151.16 X 150.92	22733	8.068	299.6	13.2	13.4
2	PCC	M10	16/07/2018	13/08/2018	149.22 X 150.74 X 151.79	22494	8.406	296.8	13.2	
3	PCC	M10	16/07/2018	13/08/2018	150.96 X 150.24 X 149.80	22681	8.410	314.9	13.9	

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-07-09-08** **Date: 12-07-2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and footpath in Ward No:02 of Yelahanka sub division.
Agency	:	Sri.Girish.M. (Sri Balaji Infrastructures), No:993, old middle school road, Yelahanka, Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-22/W.O/000013/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-07-2018
Sample ID No	:	2018-07-09-08 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	10-07-2018
Environmental Conditions during test	:	Temperature 26°C Humidity 72%

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.53	–
2	Finess by Air permeablity method (m^2/kg,Min)	298.4	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	165 minutes	Not less than 30 minutes
6	Final Setting time	255 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2018-07-09-08
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and footpath in Ward No:02 of Yelahanka sub division.
Agency	:	Sri.Girish.M. (Sri Balaji Infrastructures), No:993, old middle school road, Yelahanka, Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-22/W.O/000013/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-07-2018
Sample ID No	:	2018-07-09-08 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	10-07-2018
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

08-07-2018

Date: 07-08-2018

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	56.0N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-07-09-08** **Date: 11-07-2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and footpath in Ward No:02 of Yelahanka sub division.
Agency	:	Sri.Girish.M. (Sri Balaji Infrastructures), No:993, old middle school road, Yelahanka, Bangalore-64.
Customer Reference	:	EE(YNK.D)E-PMT-22/W.O/000013/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-07-2018
Sample ID No	:	2018-07-09-08 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	09-07-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	205	205	4.1	95.9	90-100
3	10 mm	2411	2616	52.3	47.7	25-55
4	4.75 mm	2158	4774	95.5	4.5	0-10
5	Pan	226	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-07-09-08** **Date: 11-07-2018**

Sample ID No : 2018-07-09-08 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.6	
3	Specific Gravity	2.61	–
4	Bulk Density(Loose) (Kg/l)	1.47	–
5	Bulk Density(Compacted) (Kg/l)	1.53	–
6	Water Absorption(%)	0.26	–
7	Aggregate crushing Value(%)	24.1	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.2	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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